MLP 101
MLP 101 AAP
MLP 101 D

MIC TO LINE PREAMPLIFIERS

- Switchable 48 volt phantom power
- Wide input gain adjustment range
- Switchable low cut filter
- Remote volume control and muting capability
- Flexible mounting options
- AAP mountable version - MLP 101 AAP
- Decora® style wall-mountable version - MLP 101 D

MLP 101

MLP 101 D

MLP 101 AAP

The Extron MLP 101, MLP 101 AAP, and MLP 101 D are compact microphone preamplifiers that allow a dynamic or condenser microphone to be connected to any device with a line level input. Featuring 48 volt phantom power and wide input gain adjustment range, they are ideal for presentation environments as well as distribution and recording.

DESCRIPTION

The Extron **MLP 101**, **MLP 101 AAP**, and **MLP 101 D** Mic to Line Preamplifiers are compact mic preamps for applications where a microphone must be connected to a line level audio input on a device such as a switcher or line level mixer. Mic level signals are boosted up to balanced or unbalanced line level signals. These preamps also allow a microphone to be connected to the Aux/Mix input on the Extron MediaLink™ series of switchers.

MLP 101

The front panel of the MLP 101 features a continuous gain control for precise adjustment of input microphone level. Toggle switches are provided to engage 48 volt phantom power for compatibility with condenser microphones, and a switchable low cut filter at 75 Hz to reduce rumble and wind noise picked up by the microphone. Input and output connections are provided on the rear panel using captive screw connectors. The MLP 101's output can be remotely controlled for microphone level adjustment via a 10k potentiometer, and muting via contact closure using the VCM 100 AAP, VCM 100 MAAP, or a third-party solution. Part of the VersaTools® line of small, economical, integrator friendly products, the MLP 101 is housed in a 1U, one-eighth rack width metal enclosure for numerous installation options.

MLP 101 AAP

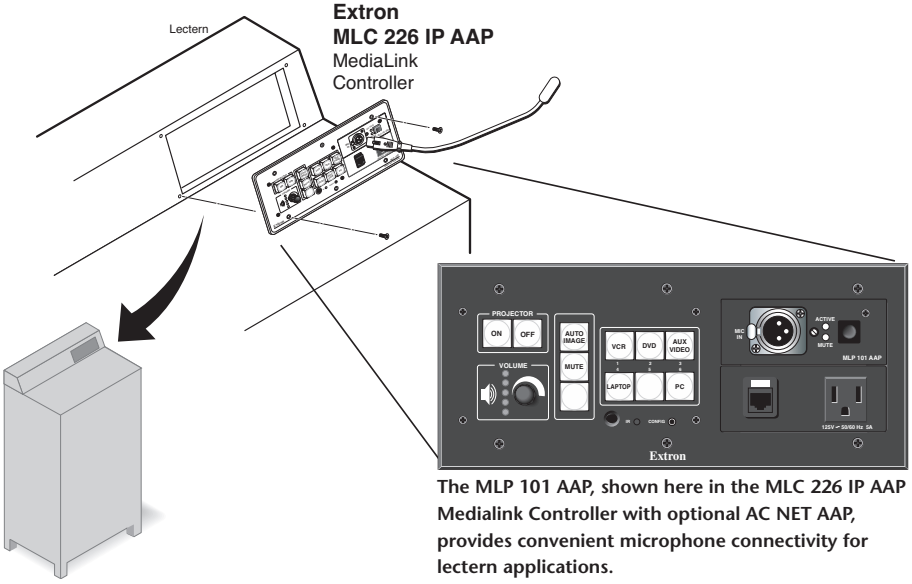
The MLP 101 AAP provides all of the same functions as the MLP 101 within a double-space AAP - Architectural Adapter Plate active module. The front panel features a microphone input on an XLR connector, a recessed input gain control that can be concealed, and a push-button for muting the audio. The rear panel features a captive screw connector for the output, and slide switches for 48 volt phantom power and 75 Hz low cut filtering. The MLP 101 AAP can easily be mounted in any Extron product or mounting frame with an opening for a double-space AAP.

MLP 101 D

The MLP 101 D offers the same features and functions as the MLP 101 AAP, but in a form factor designed for wall mounting with the included Decora-style wall plate. It can be installed with or without a one-gang electrical box.

FEATURES

- **Selectable 48 volt phantom power** – Provides voltage for condenser microphones.
- **Precise mic input gain adjustment** – A continuous, rotary trim pot allows for precise setting of microphone input gain from +25 to +72 dB to accommodate various microphone signal levels. For the MLP 101 AAP and MLP 101 D, the pot is recessed on the front panel and can be concealed with a security cap to prevent unauthorized use.
- **Remote volume and mute control capability** – Allows volume adjustment and muting of the MLP Series' output using the VCM 100 Volume and Mute Controllers or a third-party controller.
- **Selectable 75 Hz low cut filter** – Rolls off frequencies below 75 Hz, so that rumble and wind noise are reduced without affecting vocal range frequencies.
- **Mute button - MLP 101 AAP** – Easily allows the presenter to mute the microphone input. An LED reference gives visual feedback as to whether the mic is active or muted.
- **Integration friendly connectivity** – The MLP 101 features microphone input and line level output on captive screw connectors. The MLP 101 AAP and MLP 101 D feature input on an XLR connector, and output on a captive screw connector.
- **Flexible mounting options** – The MLP 101 is housed in a 1U, one-eighth rack width metal enclosure and can be mounted under or through a desk or in a rack. The MLP 101 AAP easily mounts within a double-space AAP opening in a variety of AAP frames and MLC lectern mounts. The MLP 101 D mounts in an included Decora-style wall plate.
- **External international power supply included, part # 70-055-01**



The MLP 101 AAP, shown here in the MLC 226 IP AAP Medialink Controller with optional AC NET AAP, provides convenient microphone connectivity for lectern applications.

AUDIO

Gain	Adjustable, +25 dB to + 72 dB
Frequency response	20 Hz to 20 kHz, ±0.1 dB
	THD + Noise (with a 10 Hz to 80 kHz bandwidth filter)
	0.03% when input is -48 dBV and output is +4 dBu.
	0.14% when input is -60 dBV and output is -10 dBV
S/N	92 dB at maximum output (unweighted, with a 10 Hz to 80 kHz bandwidth filter)
CMRR	>70 dB @ 20 Hz to 20 kHz
Low cut filter	75 Hz (18 dB per octave)
Equivalent input noise	<126 dBV (unweighted, with a 10 Hz to 80 kHz bandwidth filter)

AUDIO INPUT

Number/signal type	1 mono, balanced
Connectors	
MLP 101	(1) 3.5 mm captive screw connector, 3 pole
MLP 101 AAP, MLP 101 D	1 female 3-pin XLR
Impedance	2k ohm balanced
Nominal level	-60 dBV or -48 dBV
Maximum level	-1.5 dBu, (balanced) at 1% THD+N

NOTE: 0 dBu = 0.775 Vrms, 0 dBV = 1 Vrms, 0 dBV ≈ 2 dBu

AUDIO OUTPUT

Number/signal type	1 mono, balanced
Connectors	(1) 3.5 mm captive screw connector, 3 pole
Impedance	<150 ohms balanced
Maximum level (Hi-Z)	>+25 dBu, balanced at 1% THD+N
Maximum level (600 ohm)	>+20 dBu, balanced at 1% THD+N

CONTROL/REMOTE — PREAMP

Contact closure	(1) 3.5 mm captive screw connector, 3 pole
Contact closure pin configurations	1 = 10 VDC reference voltage
	2 = variable voltage input for remote volume control/muting
	3 = ground
Extron remote key pad control	(1) 3.5 mm captive screw connector, 3 pole

GENERAL

External power supply	100 VAC to 240 VAC, 50/60 Hz, external, autoswitchable; to 12 VDC, 1 A, regulated
Power input requirements	12 VDC, 0.3 A
Temperature/humidity	Storage: -40 to +158 °F (-40 to +70 °C) / 10% to 90%, noncondensing
	Operating: +32 to +122 °F (0 to +50 °C) / 10% to 90%, noncondensing
Rack mount	
MLP 101	Yes, with optional 1U rack shelf, part #60-190-01 or 60-604-01; or VersaTools® rack shelf, part #60-190-20 or 60-604-20; or back of the rack mount kit, 70-367-01. It is also furniture-mountable with optional under-desk mounting kit #70 212 01, or it can be attached to a projector mount with optional kit #70-217-01.
MLP 101 AAP	Yes, with optional faceplate or frame
MLP 101 D	No, but wall or furniture mountable in a Decora -style opening
Enclosure type	Metal
Enclosure dimensions	
MLP 101	1.7" H x 2.2" W x 3.0" D
	(1U high, one-eighth rack wide)
	4.3 cm H x 5.6 cm W x 7.6 cm D
	(Depth excludes connectors.)
MLP 101 AAP	
Faceplate	1.4" H x 3.5" W x 0.1" D
	(3.6 cm H x 8.9 cm W x 0.3 cm D)
	(double space high AAP plate)
Device	1.1" H x 2.75" W x 1.8" D
	(2.8 cm H x 7.0 cm W x 4.6 cm D)
	(Depth excludes connectors.)
MLP 101 D	
Faceplate	2.6" H* x 1.3" W x 0.1" D
	(6.6 cm H* x 3.3 cm W x 0.3 cm D)
	(Fits the opening in a 1 gang Decora faceplate.
	*Height is 3.8" [9.7 cm] including mounting tabs.)
Device	2.75" H x 1.1" W x 1.8" D
	(7.0 cm H x 2.8 cm W x 4.6 cm D)
	(Depth excludes connectors.)
Product weight	0.3 lbs (0.1 kg)
Shipping weight	2 lbs (1 kg)
Vibration	ISTA 1A in carton (International Safe Transit Association)
Listings	UL, CUL
Compliances	CE, FCC Class A, VCCI, AS/NZS, ICES
MTBF	30,000 hours
Warranty	3 years parts and labor

NOTE: All nominal levels are at ±10%.

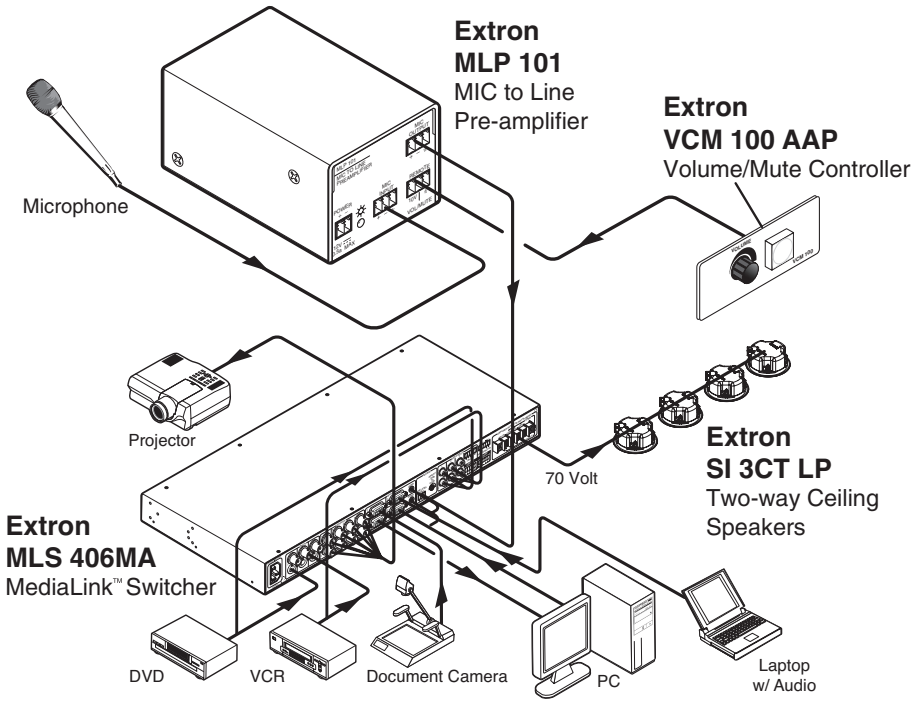
Model	Version Description	Part Number
Standard Version		
MLP 101	Mic Preamp	60-718-10
AAP Version		
MLP 101 AAP	black	60-718-11
MLP 101 AAP	white	60-718-21
MLP 101 AAP	RAL9010 white	60-718-51
Decora® Version		
MLP 101 D	black	60-822-12
MLP 101 D	white	60-822-22

Optional Accessories		
AAP Module Version		
VCM 100 AAP	Volume and Mute Controller	70-396-0X
MAAP Module Version		
VCM 100 MAAP	Volume and Mute Controller	70-397-0X

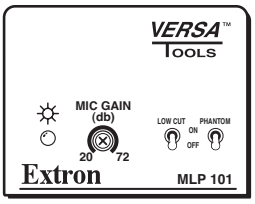
VCM 100 AAP

VCM 100 MAAP

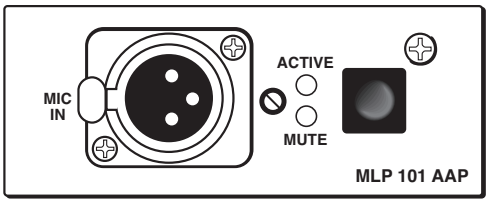
APPLICATION DIAGRAM



PANEL DRAWINGS



MLP 101 - Front



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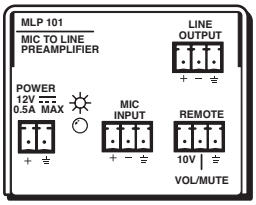

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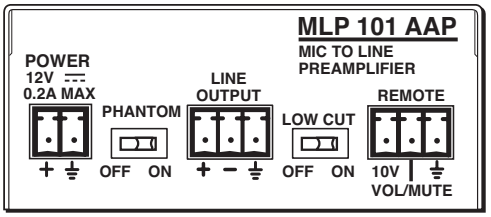

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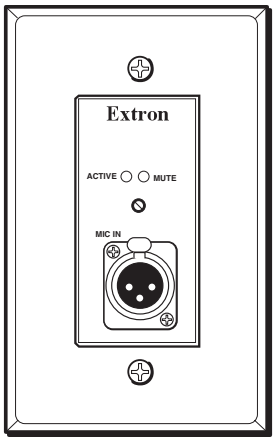

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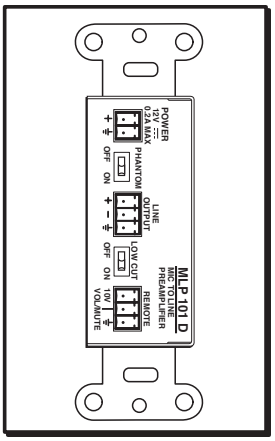

MLP 101 D - Back

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